

# Research and Development Projects

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[Dámhsgoil Neamhachais na hErend](#)

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Over the course of the last 21 years I have engaged in a wide variety of research and development projects. In this note, I wish to outline aspects of these and how they may be brought forward, and what their implications would be.

The motivation for a lot of this work, came from a summer school I attended near Lausanne in Switzerland in 1991. This was a computational physics summer school, and was attended by a wide variety of scientists from throughout Europe and a few from the United States. During coffee one morning, I was chatting with a climate researcher from Denmark, when he passed the comment ‘*I would love to hear chaos.*’ It was to be some months before I realised the implications of this comment, when I realised that sound could be used as a means of interpreting, in some form the multidimensional, self-referral, non-linear systems that characterise chaotic behaviour. This began a chase that has lasted 22 years, and is still not complete. The research is done but it has been impossible to get any funding in order to develop what I now call *audio graphics*.

Chasing *audio graphics* lead me into areas of knowledge that I would not have imagined. One of the most significant of these was my exploration of knowledge from the vedic tradition of India. This arose as a result of a trip I mad down to Schull in west Cork, during Easter 1992. I had decided to try and write up a research proposal to investigate the potential of *audio graphics*. At the time I was still in University College Cork, but had decided to leave, as I did not consider that the university was teaching it’s material in the right manner. At the time I didn’t know what the right manner was but I knew that something was missing. This became very apparent to me, as a result of lecturing in one course in particular. This was a numerical methods course designed for second year civil engineering, and applied science students. I noted that these students, who at that stage would have had in the region of fourteen years of mathematical training, had very poor practical computational skills. Everything had to be explained to them in a very structured form using highly restricted formal notation. This is not the way software is developed, it being practical, experimental and requiring a good deal of computational skill. Anyway, I was questioning the canonical teaching, not only within the university sector, but also within the whole educational system. I knew that I could not continue teaching within a system that I no longer believed in so I was hoping to get backing for the development of *audio graphics*.

As it happened, the lady of the holiday apartments, where I went for a week was a teacher of Transcendental Meditation, and by the end of the week, I had decided to learn TM. This was to begin an extraordinary journey deep into the heart of knowledge, one I suppose that I was always going to make.

Before continuing, I would like to say that another motivation for my leaving University College Cork was in relation to ethical considerations. The PhD research that I completed in 1991 was in the area of computational mechanics, but now I prefer to use the term computation alone. I conducted research way outside the confined area of my thesis topic and read widely in the areas of epistemology, the philosophy of science, string theory, the theory of consciousness, software design

methodologies, project management etc. I was somewhat unhappy with the fact that certain researchers were working on projects funded by the American military. In fact part of my PhD was funded by some American Air Force organisation based in Kirkland Air Force base. We were after all a neutral country and to accept funding from a non-neutral country was an anathema. This opinion was informed partly by a book I read after returning from UN service in the Lebanon in 1983, as a captain in the Irish Army. The book was an accounting of the level of atomic and nuclear weapons then held by the major powers. It made for chilling reading, but the last paragraph or so inspired much of my subsequent activity. It said more or less, '*it behoves every scientist on Earth to do all in their powers to ensure that the world does not commit global suicide.*' In a certain sense this became my mission in life, and the first opportunity to take direct action arose in 1992. I had become disillusioned with the way in which my science, computation, was being used by the military, especially during the first phase of the Gulf War. I decided to try and find a way to put my knowledge and experience to use for the benefit of mankind, rather than towards it's destruction.

The final factor which motivated me in leaving UCC, was the fact that they had no respect for their own PhD's. The year before I left I was asked to design a diploma course for a European funded software engineering diploma. Then shortly before I was going to announce that I was leaving the university the following September, I was asked by the then acting head of the Mathematical Physics Department to stay an extra year and teach the course. My contract had been due to expire by September anyway, but he had gone to the Academic Council, seeking an extension. I said I would but I would have to be paid properly as a PhD. He replied that he couldn't go back and ask for money. It wasn't his fault as the department was without a professor for some time after the retirement of Paddy Quinlan. This went on for quiet some time, and the voice of a professor carries much more weight at council meetings. Another contributory factor here is the enormous emphasis being placed within the Irish academic community on people who have trained in PhD's in American institutions. There is a lot of snobbery and arrogance in relation to this, even to this day. I was told one day by the head of the department that I would never get on within the mathematical physics community in Ireland, unless '*I had been to America.*' I responded that I had been there once, and didn't like it. That was sometime about 1988, when I attended a computational mechanics conference in Atlanta Georgia, and a weekend seminar in Orlando, Florida. During coffee one morning I had a chat with a very good friend of Paddy's, from Greece. He asked me what area I wished to continue my research in, and I replied that I wanted to explore the boundaries of knowledge. He replied that I would have a very lonely time, and how right he was.

Anyway back to my introduction to vedic science. Having learned the TM technique, and practising it for a little while, I got an invitation to a conference due to be held in Maastricht, Holland, during the summer of 1992. It was designated the *First European Conference on Modern Computation and Vedic Computation*. I applied for an academic travel grant and it was funded by the authorities in UCC without a problem. There I met researchers from all over Europe, and some from the United States who had spent years investigating the correlations between vedic knowledge and modern knowledge. I wasn't quiet as practiced in vedic knowledge as I am now, but I knew intuitively that there was something there that I wanted to chase. After returning to Ireland I remained conducting my own research in UCC until September.

This was not an easy time, as I was without a job for the first time since I was seventeen, some nineteen years before. I set up a sort of a research centre at home and continued. I bought a computer and started to investigate the vedic knowledge more deeply and the implications of the Transcendental Meditation programme within the field of education. Over the course of the next few years I conducted an extensive review of the published material in relation to the TM technique

and it's more advanced practise the TM Sidhi programme, including Yogic Flying. I had the opportunity to learn this in 1993, in courses conducted in Dublin, and in Kent in England. It was during the course in England that I picked up another key element. This was the first time I came across Vedic Mathematics, a system of practical mental computation which had been developed by Shri Bharati Krsna Tirthaji, in the early part of the 20th century. I was amazed at how simple the techniques were and set out to learn as much as possible about them. This was facilitated by the excellent books which had been authored or co-authored by Kenneth Williams in the U.K. As for the research I was impressed with the scientific standards of the experiments which had been conducted and reported in voluminous articles published in a wide variety of journals. One area in particular was of great interest to me. This was the studies on what is called, the *field effects of consciousness*. Numerous tests had been done which showed that the group practice of TM and even more powerfully the group practice of the TM Sidhi and Yogic Flying programme, can directly affect society as a whole, reducing stress and all negative tendencies, and increasing all positive tendencies. I knew that this was very significant in relation to my mission of 1983. My experience with the U.N. had shown me that was only a stop gap measure and did not have the knowledge to actually reduce or prevent conflict.

An opportunity arose in 1994 to begin the process of expressing the results of my research review in public. This was during a by-election in Cork South Central. I stood as a candidate for the Natural Law Party, which had been founded the year before by people like my self who could see the value of the approach prmoted by the TM organisation. Although I didn't get so many votes, it was a very valuable learning experience. After the by-election I continued with my research review, and my exploration of the techniques of vedic mathematics. I also articulated the position of the Natural Law Party, whenever the opportunity arose. As well as this I continued to advance my conceptions in relation to *audio graphics*. I was facilitated by the head of the Electrical Engineering department in UCC, in part of this. I spent a sumer as a sort of visiting researcher and worked at trying to develop a more concrete formulation of my ideas. I also began to make presentations, informally, on vedic mathematics, one of which was to researchers in UCC. One of the comments that I received afterwords, was that this was the most practical knowledge they had ever seen. During this time I made a presentation to an Irish Mechanics Group conference on the potential for using sound as a means of interpreting the wave function in Quantum Mechanics. This was facilitated by Micheal Quinlan of the Mathematical Physics Department in UCC. Micheal had been by PhD supervisor and we were very good friends. I also participated in a start-up company, Delta Financial Systems. While there I designed a booking system which was implemented in the dental hospital in Cork. My time in Delta Financial Systems lead to another opportunity when I was invited to spend six months as a visiting researcher in the National Institute of Management Technology, also in Cork. While there I conducted research on the potential for using sound as a means of interpreting financial models, as they are used in forecasting financial behaviour. I had the opportunity to work on a Next machine and quickly got to grips with the programming environment, and the underlying operating system. What hampered my progress was the difficulty in producing sound output. It was a very circuituous route and took a great deal of effort. I had the opportunity to mae a presentation to two IDA executives during this time.

The next major step occured in 1996. The year before RTÉ had held a nationwide forum where members of the public could express their views in relation to programme content of the station. I suggested that we needed more knowledge on science, more discussions in relation to science and the philosophical implications of the technologies being developed. At the end of the particular meeting I attended in the Metropole Hotel in Cork, I was approached by one of the senior news readers in RTÉ who expressed great interest in the points I had made. The followiong year I was to

put this into practice, when I launched the Campaign to Ban Genetically modified foods, again in the Metropole, in May of 1996. I did this as a result of reading John Fagan's 'Genetic Engineering the Dangers -Vedic Engineering the Solutions.' I had the opportunity to meet with John in Brussels during an international Natural Law Party Conference. and invited him to Ireland so that he could participate in our campaign. I also met with Geoffrey Clements who invited me to participate in a university project that was starting up in the U.K. later that year. John came to Ireland and we made many presentations both publicly, on the radio, and to government ministers, in relation to genetically modified foods.

From September until christmass I spent most of my time in the U.K. I had opportunity to come home once and present details of the university project to the education editor of the Irish Times and to meetings organised by John Burns in Dublin. For the period I was in England, Geoffrey lead courses on the construction of Unified Field Charts for potential academic staff. I led the computational group, and it was fascinating to see how different academic disciplines could be represented in a coherent and consistent manner. The Unified Field Charts ... *more to follow*.

*Sin é,*

*Brían*

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*These are the current locations of the Academy on the internet.*